Evaluation of the Use of Visual Storytelling as an Educational Intervention in the CICU

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BACKGROUND

Children and their parents often experience anxiety and traumatic stress after intensive care unit admissions and cardiac surgeries that can persist for years^{1,2}.

Providing information and expectations during ICU admissions has been shown to reduce parental stress and anxiety, but data on preventative interventions are lacking³.

VISUAL STORYTELLING

Key Elements of Visual Storytelling include:

- Involves the use of images and text in the form of comics or animation to tell a story.
- Enhances understanding and increases recall through the use of images and text to activate different processing pathways.
- Contains unspoken subtext that can trigger visceral reactions that cannot be conveyed by text alone.
- Suitable for both pediatric patients and families.



METHODS

Design: Cross-sectional study of families admitted to the Cardiac ICU from April 2020 to March 2021 for first cardiac surgery. Parents were sent two videos and an online survey to evaluate:

- Video design
- Quantity of information
- Format
- Relevance of information
- Emotional responses
- Parental empowerment in child's care
- Usefulness in improving CICU experience and reducing stress

Quantitative thresholds for safety and acceptability set a priori.

REFERENCES

- 1. Nelson, LP, Gold, JI. PhD Posttraumatic stress disorder in children and their parents following admission to the pediatric intensive care unit, Pediatr Crit Care Med. 2012;13(3):338-347.
- 2. Franck, LS, Mcquillan, A, Wray, J, et al. Parent Stress Levels During Children's Hospital Recovery After Congenital Heart Surgery. Pediatr Cardiol. 2010;31:961–968.
- 3. Als LC, Nadel S, Cooper M, Vickers B, Garralda ME. A supported psychoeducational intervention to improve family mental health following discharge from paediatric intensive care: feasibility and pilot randomised controlled trial. BMJ Open. 2015;5(12):1-8. PMID: 26715482.

EDUCATIONAL VIDEOS

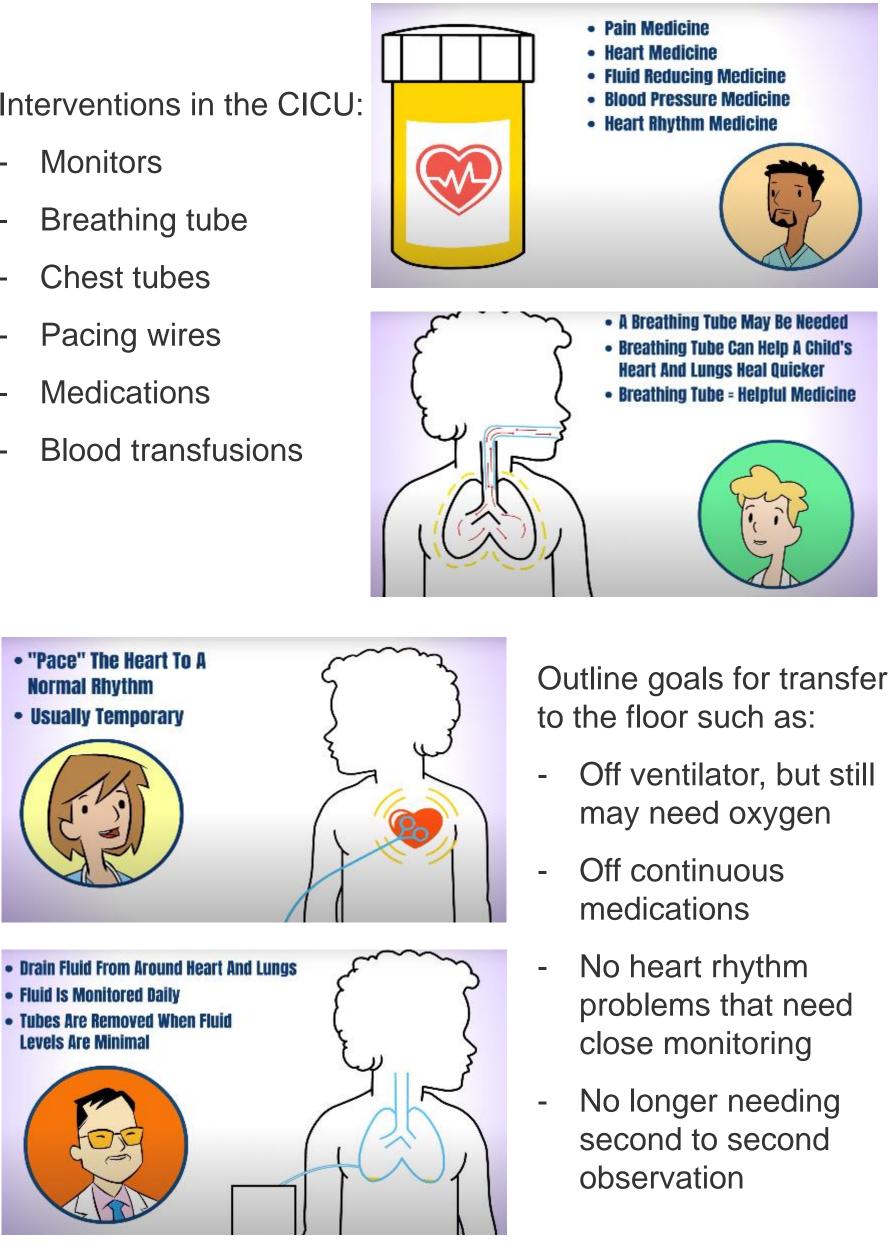
Educational Video 1: Introduction to the CICU Sophia and her family are introduced to the CICU environment and team members prior to cardiac surgery.

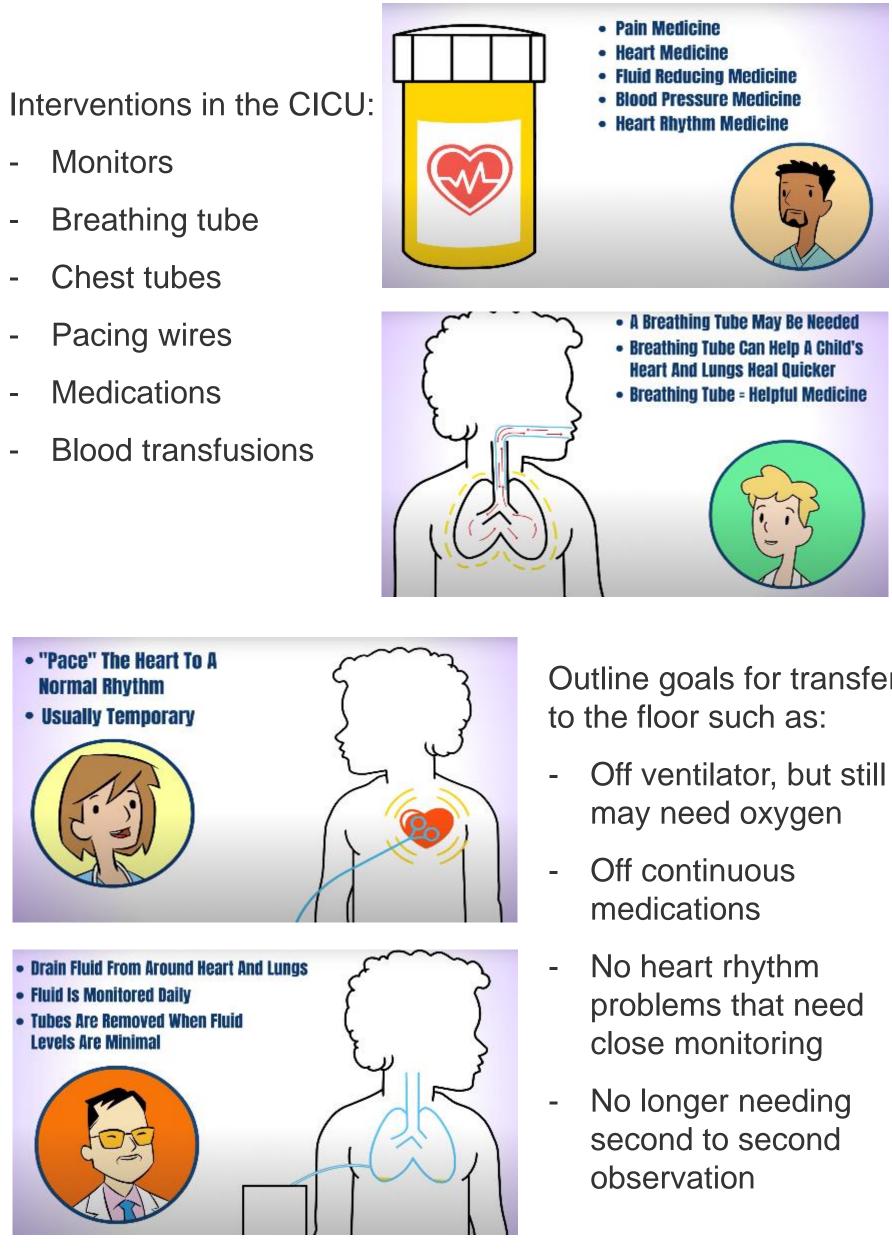




Information on medical devices, medications, monitoring, and goals for transition to the floor are discussed.







Parental empowerment is an important theme throughout. "As a parent you're not considered a visitor, but rather an important part of the care team!"

Educational Video 2: What to Expect after my Child's Surgery

SURVEY RESULTS

